

Safety Attribute Inspection (SAI) Data Collection Tool
1.3.25 Cargo Handling Equipment, Systems and Appliances (AW)

ELEMENT SUMMARY INFORMATION

Purpose of This Element (Certificate Holder's responsibility):

- To provide an Air Cargo Operations program for controlling all aspects of air transportation of cargo, to include cargo build-up, weighing, load/unload of aircraft, and an inspection program and a program covering other maintenance.

Objective (FAA oversight responsibility):

- To determine if the Certificate Holder's Air Cargo Operations process meets all applicable requirements of the Federal Aviation Regulations and FAA policies.
- To determine if the Certificate Holder's Air Cargo Operations process incorporates the System Safety Attributes.
- To identify any shortfalls in the Certificate Holder's Air Cargo Operations process.

Specific Instructions:

- Intentionally left blank

SUPPLEMENTAL INFORMATION

Specific Regulatory Requirement(s) (SRRs):

- SRRs:
 - 121.133(a)
 - 121.135(a)(1)
 - 121.135(b)(1)
 - 121.135(b)(16)
 - 121.135(b)(19)
 - 121.135(b)(2)
 - 121.135(b)(20)
 - 121.135(b)(3)
 - 121.198
 - 121.211(b)
 - 121.221(a)
 - 121.221(b)
 - 121.221(c)
 - 121.221(c)(1)
 - 121.221(c)(2)
 - 121.221(c)(3)

121.221(d)
121.221(d)(1)
121.221(d)(2)
121.221(d)(3)
121.221(d)(4)
121.221(d)(5)
121.221(e)
121.221(e)(1)
121.221(e)(2)
121.221(e)(3)
121.221(e)(4)
121.221(f)(1)
121.221(f)(2)
121.221(f)(3)
121.221(f)(4)
121.221(f)(5)
121.285
121.285(b)
121.285(b)(1)
121.285(b)(2)
121.285(b)(3)
121.285(b)(4)
121.285(b)(5)
121.285(b)(6)
121.285(b)(7)
121.285(b)(8)
121.285(c)
121.285(c)(1)
121.285(c)(2)
121.285(c)(3)
121.285(c)(4)
121.285(c)(5)
121.285(d)
121.287
121.309(c)
121.309(c)(1)
121.309(c)(2)
121.314(a)
121.314(a)(1)
121.314(a)(2)
121.314(a)(3)
121.314(c)
121.367
121.369(b)
21.31(a)
21.31(b)
21.50(b)
25.561(b)(3)
25.561(c)(1)
25.561(c)(1)(i)

25.561(c)(1)(ii)
25.561(c)(1)(iii)
25.561(d)
25.787(b)
25.787(c)
25.855(a)
25.855(b)
25.855(c)
25.855(d)
25.855(e)
25.855(f)
25.855(g)
25.857(c)(1)
25.857(c)(2)
25.857(c)(3)
25.857(c)(4)
25.858
25.858(d)
43.13(a)
43.13(c)

Related CFR(s) & FAA Policy/Guidance:

- Related CFRs:
121.380(c)(1)
25.1301(b)
25.1301(c)
25.1301(d)
- FAA Policy/Guidance:
HBAW 97-12A/FSAW 97-21
HBAT 97-08

SAI SECTION 1 – PROCEDURES ATTRIBUTE

Objective: Procedures, instructions and information contained in Certificate Holder's manual are documented methods for accomplishing a process. Policies contained in the Certificate Holder's manual should establish the Certificate Holder's compliance posture. Policies may not be stand-alone statements but may be imbedded within procedures, instructions or information regarding a particular regulatory requirement. The questions in this section of the data collection tool are designed to assist the inspector in determining if the Certificate Holder's manual has documented or prescribed methods of accomplishing the process requirements that provide answers to the associated who, what, when, where and how type questions. This section of the data collection tool contains policy questions, procedural questions and instructional or informational questions pertaining to various types of Certificate Holder requirements such as actions, prohibitions or resources (i.e., personnel, facilities, equipment, technical data, etc.).

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Review the information listed in the Supplemental Information section of this data collection tool.
- 2 Review the duties and responsibilities for management and other personnel identified by the Certificate Holder who accomplish the Air Cargo Operations process.
- 3 Review the Certificate Holder's manual to ensure that it contains policies, procedures, instructions, and information necessary for the Air Cargo Operations process.

Questions

To meet this objective, the inspector must answer the following questions:

- 1 Does the Certificate Holder's manual content meet the specific regulatory and FAA policy requirements for its Cargo Operations, Systems and Appliances process:
 - 1.1 Does the Certificate Holder's manual contain general policies for the Air Cargo Operations process that comply with the specific regulatory requirements?
SRRs: 121.135(b)(1); 121.135(b)(20); 121.211(b); 121.309(c)(1); 121.309(c)(2); 121.314(c); 121.369(b); 121.367; 121.285
Related Design JTI's:
 1. Check that the Certificate Holder's manual has a policy that except as provided 14 CFR section 121.285(b), (c), or (d) or this section, the Certificate Holder may carry cargo in the passenger compartment of an airplane.
Sources: 121.285(a)
Interfaces: 1.3.1-aw; 1.1.2-aw; 1.1.1-aw; 1.3.2-aw
 2. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that the ULD is built to the dimensional, structural, and center of gravity limitations of the ULD and the aircraft in accordance with the FAA approved Weight and Balance Manual.
Sources: Safety, (IATA ULD – Airport Handling Manual AHM –330, Paragraph 3 – Unit Load Devices) *Interfaces:* 1.1.1-aw; 1.3.2-aw; 1.3.3-aw; 1.3.14-aw; 1.3.9-aw; 1.3.7-aw; 1.1.2-op; 1.3.1-aw; 1.1.2-aw
- 1.2 Does the Certificate Holder's manual cite the regulatory requirements listed in the Supplemental Information section of this SAI?
SRRs: 121.135(b)(3)

☐ Yes
☐ No, Explain

☐ Yes
☐ No, Explain

<p>1.3 Does the Certificate Holder's manual contain the duties and responsibilities for personnel who will accomplish the Air Cargo Operations process? SRRs: 121.135(b)(2)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.4 Does the Certificate Holder's manual include instructions and information for personnel to meet the requirements of the Air Cargo Operations process? SRRs: 121.135(a)(1)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.5 Does the Certificate Holder's manual contain current information about its Air Cargo Operations for use and guidance of flight, ground, and management personnel? SRRs: 121.133(a)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has information that is kept current for use and guidance of flight operations. <i>Sources:</i> 121.133(a) <i>Interfaces:</i> 4.3.1–op; 3.1.11–op; 2.1.1–aw; 1.1.3–aw; 1.3.5–aw; 3.1.6–op; 1.3.20–aw; 3.2.3–op; 4.2.7–op; 5.1.8–aw; 5.1.2–aw; 2.1.3–op; 3.1.4–op; 6.1.1–op; 2.1.2–op; 2.1.5–op; 3.1.12–op; 3.1.3–op; 2.1.4–op; 7.1.4–op; 5.1.9–aw; 6.1.3–op; 4.2.11–op; 2.1.1–op; 3.1.2–op; 7.1.3–op; 1.3.13–aw; 1.3.19–aw; 1.2.3–aw; 5.1.8–op; 5.1.9–op; 3.1.1–op; 7.2.1–op; 5.1.7–op; 1.3.17–aw; 2.1.4–aw; 2.1.3–aw; 3.2.1–op; 2.1.5–aw; 2.1.2–aw; 5.1.6–op 2. Check that the Certificate Holder's manual system has information that is kept current for use and guidance of ground operations. <i>Sources:</i> 121.133(a) <i>Interfaces:</i> 1.2.3–aw; 5.1.9–aw; 2.1.4–aw; 1.3.8–aw; 1.2.2–aw; 1.3.9–aw; 4.3.3–op; 2.1.5–aw; 6.1.1–op; 5.1.8–aw; 7.1.6–aw; 1.3.17–aw; 2.1.2–aw; 4.3.2–op; 3.1.12–op; 1.1.3–aw; 1.3.22–aw; 1.3.5–aw; 1.3.7–aw; 1.1.2–aw; 3.1.1–op; 1.2.5–aw; 1.3.23–aw; 1.3.24–aw; 1.3.21–aw; 1.3.6–aw; 1.2.4–aw; 2.1.3–aw; 5.1.1–aw; 3.1.11–op; 2.1.1–op; 5.1.9–op; 2.1.4–op; 5.1.8–op; 4.4.4–aw; 3.1.4–op; 1.3.20–aw; 1.1.1–aw; 1.3.3–aw; 7.1.3–aw; 5.1.2–aw; 3.1.5–op; 3.2.3–op; 7.1.2–aw; 4.1.1–aw; 2.1.5–op; 2.1.2–op; 1.3.1–aw; 2.1.3–op; 1.3.2–aw; 3.2.2–op; 7.1.1–aw; 4.2.5–op; 1.3.10–aw; 2.1.1–aw; 1.3.16–aw; 1.2.1–aw; 1.3.14–aw; 3.1.6–op; 1.3.12–aw; 1.3.11–aw; 3.1.7–op; 3.1.3–op; 4.4.3–aw; 1.3.15–aw; 4.2.1–aw; 1.1.2–op; 6.1.4–op 3. Check that the Certificate Holder's manual system has information that is kept current for use and guidance of management personnel in conducting its operations. <i>Sources:</i> 121.133(a) <i>Interfaces:</i> 7.1.5–op; 7.1.4–op; 7.1.3–op; 7.1.1–aw; 7.1.3–aw; 7.1.2–aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.6 Does the Certificate Holder's manual contain the drawings and specifications necessary to define the configuration and design of the aircraft (product) used in its Air Cargo Operations? SRRs: 121.135(a)(1); 21.31(a); 21.31(b)</p> <p><i>Related Design JTI's:</i></p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

<p>1. Check that the Certificate Holder's manual system has instructions and information to personnel ensuring that drawings and specifications necessary to define the configuration and the design features of the aircraft loading systems to show that they comply with the requirements of type design are maintained. <i>Sources:</i> 21.31(a); 21.31(b); 121.135(a)(1) <i>Interfaces:</i> 1.3.1-aw; 1.1.1-aw; 1.1.2-op; 1.3.10-aw; 1.1.2-aw; 1.3.17-aw</p>	
<p>1.7 Does the Certificate Holder's manual contain instructions for continued airworthiness for its aircraft (product), which are made available to any person who is required to comply with those instructions? SRRs: 121.135(b)(16); 43.13(a); 43.13(c); 21.50(b) <i>Related Design JTI's:</i> 1. Check that the Certificate Holder's manual has instructions and procedures that it will retrieve and include original and updated manufacturer's Instructions for Continued Airworthiness, i.e., TC's, STC's, or other FAA approved data as they apply to products, articles, and parts. <i>Sources:</i> 21.50(b); 43.13(a); 43.13(c); 121.135(b)(16) <i>Interfaces:</i> 1.1.2-aw; 1.1.2-op; 1.3.1-aw; 1.1.1-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.8 When the Certificate Holder carries cargo in the passenger compartment, does the Certificate Holder's manual contain procedures to ensure proper restraint of cargo carried within the passenger compartment so that if they break loose, they will be unlikely to: SRRs: 25.561(c)(1)</p>	
<p>1.8.1 Cause direct injury to occupants? SRRs: 25.561(c)(1)(i)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.8.2 Penetrate fuel tanks or lines or cause fire or explosion hazard by damage to adjacent systems? SRRs: 25.561(c)(1)(ii)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.8.3 Nullify any of the escape facilities provided for use after an emergency landing? SRRs: 25.561(c)(1)(iii)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.9 Does the Certificate Holder that carries cargo in a passenger compartment state in its manual that when positioning of cargo or large masses is not practical (e.g., fuselage-mounted engines or auxiliary power units), each such item of mass shall be restrained under all loads up to those specified in 14 CFR Section 25.561(b)(3)? [NOTE: The local attachments for these items should be designed to withstand 1.33 times the specified loads if these items are subject to severe wear and tear through frequent removal (e.g., quick change interior items).] SRRs: 25.561(b)(3)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.10 Does the Certificate Holder who carries cargo in a passenger compartment state in its manual that seats and items of mass (and their supporting structure) does not deform under any loads?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

SRRs: 25.561(d)	
<p>1.11 Does the Certificate Holder's manual describe the aircraft airworthiness requirements when it operates (for cargo service only) at increased zero fuel and landing weights specific aircraft certificated under Part 4B of the Civil Air Regulations? SRRs: 121.198</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder's manual system includes procedures, If applicable, specifying how certain transport category cargo service airplanes may have increased zero fuel and landing weights on the following airplanes: (1) DC-6A, DC-6B, DC-7B, and DC-7C; and (2) L1049B, C, D, E, F, G, and H, and the L1649A when modified in accordance with supplemental type certificate SA 4-1402. In accordance with the requirements of FAR 121.198. <i>Sources:</i> 121.198 <i>Interfaces:</i> 7.1.4-op; 7.1.5-op; 7.1.3-op; 4.1.1-aw; 1.3.1-aw; 7.1.1-aw; 1.2.3-aw; 3.2.1-op; 1.3.14-aw; 1.3.15-aw; 1.2.2-aw; 2.1.2-aw; 1.1.1-aw; 1.2.1-aw; 1.3.17-aw; 2.1.2-op; 3.1.9-op; 7.1.3-aw; 7.1.2-aw; 3.2.2-op; 1.3.2-aw; 1.3.9-aw; 1.3.3-aw; 7.1.6-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12 When operating an airplane that was type certificated under Aero Bulletin 7A or Part 04 of the Civil Air Regulations in effect before November 1, 1946, does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations: SRRs: 121.135(b)(16); 121.211(b)</p>	
<p>1.12.1 Specify that when compartment(s) are used for storing cargo or baggage they meet design requirements? SRRs: 121.221(a)</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder has a requirement, at a minimum, outlined in their Letter of Compliance, to ensure that no compartment used for storing cargo or baggage may include controls, wiring, lines, equipment, or accessories that would upon damage or failure, affect the safe operation of the airplane unless the item is adequately shielded, isolated, or otherwise protected so that it cannot be damaged by movement of cargo in the compartment and so that damage to or failure of the item would not create a fire hazard in the compartment. <i>Sources:</i> 121.221(a)(1) <i>Interfaces:</i> 1.3.14-aw; 3.1.5-op; 1.1.1-aw; 1.3.3-aw; 1.3.2-aw; 3.2.3-op; 1.3.15-aw; 1.3.5-aw; 1.3.11-aw; 1.1.2-op; 1.2.2-aw; 7.2.1-op; 1.3.9-aw; 1.2.5-aw; 7.1.6-aw; 1.2.3-aw; 1.3.1-aw; 1.1.2-aw; 7.1.1-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>1.12.2 Specify that when a fire within a cargo or baggage compartment is readily discernible to a crewmember while at his/her station, and all parts of the compartment are easily accessible in flight, the compartment is classified as category "A"?</p> <p>SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(b)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that all aircraft, which contain Class A cargo compartments, have approved fire extinguishers available. <i>Sources:</i> 121.221(b)(2); 25.851(a)(3); 25.851(a)(5); 121.135(a)(1) <i>Interfaces:</i> 1.1.2-aw; 1.3.14-aw; 3.1.8-op; 1.3.2-aw; 2.1.2-op; 1.1.2-op; 1.3.1-aw; 1.1.1-aw; 2.1.2-aw 2. Check that the Certificate Holder has a requirement, at a minimum, outlined in their Letter of Compliance, to ensure that a fire in a Class A cargo and baggage compartment would be readily discernible to a member of the crew while at his station. <i>Sources:</i> 121.221(b)(1) <i>Interfaces:</i> 1.1.2-aw; 3.2.3-op; 1.3.3-aw; 1.3.9-aw; 1.3.5-aw; 1.3.2-aw; 1.3.11-aw; 7.2.1-op; 1.1.2-op; 3.1.5-op; 7.1.6-aw; 1.1.1-aw; 1.3.1-aw; 1.2.3-aw; 7.1.1-aw; 1.3.14-aw; 1.2.5-aw; 1.3.15-aw; 1.2.2-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.3 Specify that if enough access is provided while in flight to enable a crewmember to effectively reach all of the compartment and its contents with a hand fire extinguisher, and the compartment is so designed that when the access provisions are being used no hazardous amount of smoke, flames, or extinguishing agent enters any compartment occupied by the crew or passengers, the compartment is classified as category "B"?</p> <p>SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(c)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.4 Specify that each cargo or baggage compartment classified as category "B" has a separate approved smoke or fire detector system to give warning at the pilot or flight engineer station?</p> <p>SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(c)(1)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and procedures to maintain the integrity of any device intended to preclude any hazardous quantity of smoke, flames, or extinguishing agent from entering any compartment occupied by the crew or passengers as applicable to cargo compartments. <i>Sources:</i> 25.857(b)(2); 121.221(c); 121.221(d); 121.221(e) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>1.12.5 Specify that each cargo or baggage compartment classified as category "B" has a hand fire extinguisher available for the compartment? SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(c)(2)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that all aircraft, which contain Class B cargo compartments, have approved fire extinguishers available. <i>Sources:</i> 121.221(c)(2); 121.135(a)(1); 25.851(a)(3); 25.851(a)(5) <i>Interfaces:</i> 2.1.2-aw; 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.1-aw; 2.1.2-op; 1.1.2-op; 1.3.14-aw; 3.1.8-op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.6 Specify that each cargo or baggage classified as category "B" is lined with fire-resistant material, except that an additional service lining of flame-resistant material may be used? SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(c)(3)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.7 Specify that if a cargo or baggage compartment does not conform to the requirements for the "A", "B", "D", or "E" categories, it is classified as category "C"? SRRs: 121.135(a)(1); 121.135(b)(16); 121.221(d)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and procedures to maintain the integrity of any device intended to preclude any hazardous quantity of smoke, flames, or extinguishing agent from entering any compartment occupied by the crew or passengers as applicable to cargo compartments. <i>Sources:</i> 25.857(b)(2); 121.221(c); 121.221(d); 121.221(e) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.8 Specify that each category "C" cargo or baggage compartment has a separate approved smoke or fire detector system to give warning at the pilot or flight engineer station? SRRs: 121.221(d)(1)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.9 Specify that each category "C" cargo or baggage compartment has an approved built-in fire-extinguishing system controlled from the pilot or flight engineer station? SRRs: 121.221(d)(2)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.10 Specify that each category "C" cargo or baggage compartment is designed to exclude hazardous quantities of smoke, flames, or extinguishing agents from entering into any compartment occupied by the crew or passengers? SRRs: 121.221(d)(3)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and procedures that identifies the approved means for Class C or E compartments to exclude hazardous quantities of smoke, flames, or extinguishing agent, from any compartment occupied by the crew or passengers, as applicable to the specific aircraft. If the means is an approved installed device, check that the Certificate Holder's manual system has information appropriate to ensure the 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>approved device is maintained to its intended function as defined by the ICAW. <i>Sources:</i> 25.857(c)(3); 25.857(e)(4); 121.221(d)(3); 121.221(f)(4); 121.135(b)(16) <i>Interfaces:</i> 1.1.2-aw; 1.3.1-aw; 1.1.1-aw; 1.3.2-aw; 1.1.2-op; 1.3.14-aw</p>	
<p>1.12.11 Specify that each category "C" cargo or baggage compartment controls ventilation and draft so that the extinguishing agent provided can control any fire that may start in the compartment? SRRs: 121.221(d)(4) <i>Related Design JTI's:</i> 1. Check that the Certificate Holder's manual system has instructions and procedures that identifies the means to control ventilation and drafts within the Class C compartment so that the extinguishing agent used can control any fire that may start within the compartment. Ensure that the Certificate Holder's manual system has information appropriate to maintain the approved systems as defined by the ICAW. <i>Sources:</i> 25.857(c)(4); 121.221(d)(4); 121.135(b)(16) <i>Interfaces:</i> 1.1.2-op; 1.3.1-aw; 1.3.14-aw; 1.1.1-aw; 1.1.2-aw; 1.3.2-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.12 Specify that each category "C" cargo or baggage compartment is lined with fire-resistant material, except that an additional service lining of flame-resistant material may be used? SRRs: 121.221(d)(5)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.13 Specify that each cargo and baggage compartment classified in the "D" category is so designed and constructed that a fire occurring therein will be completely confined without endangering the safety of the airplane or the occupants? SRRs: 121.221(e) <i>Related Design JTI's:</i> 1. Check that the Certificate Holder's manual system has instructions and procedures to maintain the integrity of any device intended to preclude any hazardous quantity of smoke, flames, or extinguishing agent from entering any compartment occupied by the crew or passengers as applicable to cargo compartments. <i>Sources:</i> 25.857(b)(2); 121.221(c); 121.221(d); 121.221(e) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.14 Specify that each Class "D" compartment has a means to exclude hazardous quantities of smoke, flames, or noxious gases from entering any compartment occupied by the crew or passengers? SRRs: 121.221(e)(1)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.12.15 Specify that each Class "D" compartment has a means of controlling ventilation and drafts within each compartment so that any fire likely to occur in the compartment will not progress beyond safe limits? SRRs: 121.221(e)(2)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

1.12.16 Specify that each Class "D" compartment is completely lined with fire-resistant material? SRRs: 121.221(e)(3)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.17 Specify that for each Class "D" compartment consideration is given to the effect of heat within the compartment on adjacent critical parts of the airplane? SRRs: 121.221(e)(4)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.18 Specify that on airplanes used for the carriage of cargo only, if the cabin area is classified as a Class "E" compartment, the cabin area is completely lined with fire-resistant material? SRRs: 121.221(f)(1)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.19 Specify that on airplanes used for the carriage of cargo only, if the cabin area is classified as a Class "E" compartment, it has a separate system of an approved type of smoke or fire detector to give warning at the pilot or flight engineer station? SRRs: 121.221(f)(2)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.20 Specify that on airplanes used for the carriage of cargo only, if the cabin area is classified as a Class "E" compartment, it has a means to shut off the ventilating air flow to or within the compartment and the controls for that means are accessible to the flight crew in the crew compartment? SRRs: 121.221(f)(3) <i>Related Design JTI's:</i> 1. Check that the Certificate Holder's manual system has instructions and procedures that identifies the means to shut off the ventilating airflow to, or within, the Class E compartment, and the controls for these means are accessible to the flight crew in the crew compartment. Ensure that the Certificate Holder's manual system has information appropriate to maintain the approved systems as defined by the ICAW. <i>Sources:</i> 25.857(e)(3); 121.221(f)(3); 121.135(b)(16) <i>Interfaces:</i> 1.3.14-aw; 1.1.1-aw; 1.3.2-aw; 1.1.2-op; 1.3.1-aw; 1.1.2-aw	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.21 Specify that on airplanes used for the carriage of cargo only, if the cabin area is classified as a Class "E" compartment, it has a means to exclude hazardous quantities of smoke, flames, or noxious gases from entering the flight crew compartment? SRRs: 121.221(f)(4)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.12.22 Specify that on airplanes used for the carriage of cargo only, if the cabin area is classified as a Class "E" compartment, it has required crew emergency exits accessible under all cargo loading conditions? SRRs: 121.221(f)(5)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.13 When carrying cargo anywhere in the passenger compartment, does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations specify that: SRRs: 121.285(b); 121.367	

<p>1.13.1 Approved cargo bins in the passenger compartment will withstand the load factors and emergency landing conditions applicable to the passenger seats of the airplane in which the bin is installed, multiplied by a factor of 1.15, using the combined weight of the bin and the maximum weight of cargo that may be carried in the bin? SRRs: 121.285(b)(1)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes procedures that if cargo is carried anywhere in the passenger compartment, the bin must withstand the load factors and emergency landing conditions applicable to the passenger seats of the airplane in which the bin is installed, multiplied by a factor of 1.15, using the combined weight of the bin and the maximum weight of cargo that may be carried in the bin. <i>Sources:</i> 121.285(b)(1); 121.135(b)(20) <i>Interfaces:</i> 7.2.1–op; 1.2.3–aw; 1.2.2–aw; 1.3.1–aw; 1.3.17–aw; 2.1.2–aw; 1.1.1–aw; 3.2.3–op; 3.2.2–op; 1.1.2–aw; 1.3.5–aw; 1.2.1–aw; 3.1.2–op; 1.3.14–aw; 2.1.2–op; 3.1.5–op; 1.1.2–op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.13.2 Approved cargo bins in the passenger compartment are approved for the maximum weight of the cargo that the bin is to carry? SRRs: 121.285(b)(2)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes instructions and information to personnel to ensure that only approved bins are used to carry cargo in the passenger compartment. The bin must contain instructions necessary to ensure proper weight distribution and the maximum weight of the cargo must be conspicuously marked on the bin. <i>Sources:</i> 121.285(b)(2); 121.135(a)(1) <i>Interfaces:</i> 1.3.2–aw; 1.1.1–aw; 1.1.2–op; 1.1.2–aw; 1.3.1–aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.13.3 Approved cargo bins in the passenger compartment are conspicuously marked on the bin for the maximum weight of cargo that the bin is approved to carry and any instructions necessary to ensure proper weight distribution within the bin? SRRs: 121.285(b)(2)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.13.4 Approved cargo bins in the passenger compartment impose only a load on the floor or other structure of the airplane that is within the load limitations of that structure? SRRs: 121.285(b)(3)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes procedures that if cargo is carried anywhere in the passenger 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>compartment, the bin may not impose any load on the floor or other structure of the airplane that exceeds the load limitations of that structure.</p> <p><i>Sources:</i> 121.285(b)(3); 121.135(b)(20)</p> <p><i>Interfaces:</i> 1.3.1-aw; 2.1.2-op; 3.1.5-op; 3.1.2-op; 1.1.1-aw; 1.1.2-op; 1.2.3-aw; 1.3.17-aw; 1.2.1-aw; 1.3.14-aw; 1.2.2-aw; 7.2.1-op; 3.2.2-op; 2.1.2-aw; 3.2.3-op; 1.1.2-aw; 1.3.5-aw</p>	
<p>1.13.5 Approved cargo bins in the passenger compartment that are attached to the seat tracks or to the floor structure of the airplane and its attachment will withstand the load factors and emergency landing conditions applicable to the passenger seats of the airplane, multiplied by either the factor 1.15 or the seat attachment factor specified for the airplane, whichever is greater, using the combined weight of the bin and the maximum weight of cargo that may be carried in the bin?</p> <p>SRRs: 121.285(b)(4)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes instructions and information to personnel to ensure that cargo bins installed in the passenger compartment are properly attached to the seat tracks or to the floor structure of the airplane. The method of attachment must be in accordance with OEM instruction or other approved data. <p><i>Sources:</i> 121.285(b)(4); 121.135(a)(1)</p> <p><i>Interfaces:</i> 3.1.8-op; 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>
<p>1.13.6 Approved cargo bins in the passenger compartment are installed in a position that permits access to or use of any required emergency exit, or of the aisle in the passenger compartment?</p> <p>SRRs: 121.285(b)(5)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that no bin, used for the Air Cargo Operations within the passenger compartment, is installed that would restrict access to any required emergency exit, or aisle in the passenger compartment. <p><i>Sources:</i> 121.285(b)(5); 121.135(a)(1)</p> <p><i>Interfaces:</i> 1.3.1-aw; 1.1.1-aw; 1.1.2-aw; 3.1.8-op; 1.1.2-op; 1.3.2-aw</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>
<p>1.13.7 Approved cargo bins in the passenger compartment are fully enclosed and made of material that is at least flame resistant?</p> <p>SRRs: 121.285(b)(6)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has a procedure to ensure that if cargo is carried anywhere in 	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>

<p>the passenger compartment, the bin must be fully enclosed and made of material that is at least flame resistant.</p> <p><i>Sources:</i> 121.285(b)(6); 121.135(b)(24)</p> <p><i>Interfaces:</i> 1.1.2-aw; 1.3.14-aw; 1.3.5-aw; 3.2.2-op; 1.2.1-aw; 3.2.3-op; 2.1.2-op; 3.1.5-op; 3.1.2-op; 7.2.1-op; 1.3.1-aw; 1.1.2-op; 1.2.3-aw; 1.2.2-aw; 2.1.2-aw; 1.3.17-aw; 1.1.1-aw</p>	
<p>1.13.8 Approved cargo bins in the passenger compartment contain suitable safeguards within the approved cargo bin to prevent the cargo from shifting under emergency landing conditions?</p> <p>SRRs: 121.285(b)(7)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has a procedure to ensure that if cargo is carried anywhere in the passenger compartment, suitable safeguards must be provided within the bin to prevent the cargo from shifting under emergency landing conditions. <p><i>Sources:</i> 121.285(b)(7); 121.135(b)(24)</p> <p><i>Interfaces:</i> 1.2.3-aw; 1.2.2-aw; 1.3.17-aw; 2.1.2-aw; 7.2.1-op; 1.1.2-aw; 3.2.3-op; 3.2.2-op; 1.3.1-aw; 1.3.5-aw; 3.1.2-op; 3.1.5-op; 1.3.14-aw; 2.1.2-op; 1.1.1-aw; 1.1.2-op; 1.2.1-aw</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>
<p>1.13.9 Approved cargo bins in the passenger compartment are installed in a position that allows any passenger a clear view of the "seat belt" sign, "no smoking" sign, or any required exit sign, unless an auxiliary sign or other approved means for proper notification of the passenger is provided?</p> <p>SRRs: 121.285(b)(8)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that no bin will be installed in a position that obscures any passenger's view of the "seat belt" sign, "no smoking" sign, or any required exit sign, unless an auxiliary sign or other approved means for proper notification of the passenger is provided. <p><i>Sources:</i> 121.285(b)(8); 121.135(a)(1)</p> <p><i>Interfaces:</i> 1.3.1-aw; 1.1.1-aw; 1.1.2-op; 3.1.8-op; 1.3.2-aw; 1.1.2-aw</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>
<p>1.14 When carrying cargo aft of a bulkhead or divider in the passenger compartment, does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations specify that:</p> <p>SRRs: 121.285(c); 121.367</p>	
<p>1.14.1 Approved restraints are available to restrain the cargo to the load factors of Upward 3.0g; Forward 9.0g; Sideward 3.0g on the airframe and 4.0g on the seats and their attachments; Downward 6.0g; and Rearward 1.5g?</p> <p>SRRs: 121.285(c)(1); 121.285(c)(2); 25.561(b)(3)</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No, Explain</p> <p><input type="checkbox"/> Not Applicable</p>

<p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system contains instructions and information to personnel for cargo, carried aft of a bulkhead or divider in any passenger compartment, ensure it is restrained to the load factors in Sec. 25.561(b)(3). The Certificate Holder is responsible for providing acceptable data to ensure safety belt or tiedown devices will meet the load factors in Sec. 25.561(b)(3). <i>Sources:</i> 121.285(c)(1); 121.135(a)(1) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.1-aw; 1.1.2-op; 3.1.8-op 2. Check that the Certificate Holder's manual system contains instructions and information to personnel that cargo may be carried aft of a bulkhead or divider in any passenger compartment, provided the cargo is restrained to the load factors in Sec. 25.561(b)(3) and is covered in a manner to avoid possible injury to passengers and passenger compartment occupants. <i>Sources:</i> 121.285(c)(2); 121.135(b)(24) <i>Interfaces:</i> 1.1.2-op; 1.3.1-aw; 1.1.1-aw; 1.1.2-aw; 1.3.2-aw; 3.1.8-op 	
<p>1.14.2A safety belt or other tiedown having enough strength to eliminate the possibility of shifting under all normally anticipated flight and ground conditions is provided? <i>SRRs:</i> 121.285(c)(1)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system contains instructions and information to personnel that when cargo is carried aft of a bulkhead or divider in any passenger compartment, ensure it is properly secured by a safety belt or other tiedown have enough strength to eliminate the possibility of shifting under all normally anticipated flight and ground conditions. <i>Sources:</i> 121.285(c)(1); 121.135(a)(1) <i>Interfaces:</i> 1.1.2-aw; 3.1.8-op; 1.3.2-aw; 1.1.2-op; 1.1.1-aw; 1.3.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.14.3The cargo will impose load on seats or the floor structure that is within the load limitation for those components? <i>SRRs:</i> 121.285(c)(3)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes procedures that if cargo is carried anywhere in the passenger compartment provided the cargo it does not impose any load on seats or the floor structure that exceeds the load limitation for those components. <i>Sources:</i> 121.285(c)(3); 121.135(b)(20) <i>Interfaces:</i> 1.1.2-op; 2.1.2-aw; 1.1.2-aw; 3.2.3-op; 3.1.5-op; 2.1.2-op; 3.2.2-op; 3.1.1-op; 3.1.2-op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>1.14.4 The cargo location will permit access to or use of any required emergency or regular exit, or of the aisle in the passenger compartment? SRRs: 121.285(c)(4)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that no cargo carried in passenger compartment, aft of a bulkhead or divider, is installed so that it does not restrict access to any required emergency exit, or of the aisle in the passenger compartment. <i>Sources:</i> 121.285(c)(4); 121.135(a)(1) <i>Interfaces:</i> 1.3.2-aw; 1.1.1-aw; 1.1.2-op; 3.1.8-op; 1.1.2-aw; 1.3.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.14.5 The cargo location will allow any passenger a clear view of the "seat belt" sign, "no smoking" sign, or required exit sign, unless an auxiliary sign or other approved means for proper notification of the passenger is provided? SRRs: 121.285(c)(5)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that cargo loaded in the passenger compartment, aft of a bulkhead or divider, does not obscure any passenger's view of the "seat belt" sign, "no smoking" sign, or required exit sign, unless an auxiliary sign or other approved means for proper notification of the passenger is provided. <i>Sources:</i> 121.285(c)(5); 121.135(a)(1) <i>Interfaces:</i> 3.1.8-op; 1.1.2-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.15 When carry-on baggage is carried in the passenger compartment of a nontransport category airplane certificated after December 31, 1964, does the Certificate Holder's manual specify that the baggage must be carried and secured by an approved means? SRRs: 121.285(d)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means. <i>Sources:</i> 121.285(d); 121.135(b)(24) <i>Interfaces:</i> 3.1.5-op; 3.2.2-op; 3.1.2-op; 1.1.2-op; 1.1.2-aw; 1.3.17-aw 2. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means. For cargo, it is properly secured by a safety belt or other tie-down having enough strength to eliminate the possibility of shifting under all normally anticipated flight and ground conditions, or for carry-on baggage, it is restrained so as to prevent its movement during air turbulence.

Sources: 121.285(d)(1); 121.135(b)(24)

Interfaces: 1.3.17-aw; 1.1.2-aw; 3.1.5-op; 3.2.2-op; 1.1.2-op; 3.1.2-op

3. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, it is packaged or covered to avoid possible injury to occupants.

Sources: 121.285(d)(2); 121.135(b)(24)

Interfaces: 1.3.17-aw; 1.1.2-aw; 3.2.2-op; 3.1.5-op; 1.1.2-op; 3.1.2-op

4. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, it does not impose any load on seats or in the floor structure that exceeds the load limitation for those components.

Sources: 121.285(d)(3); 121.135(b)(24)

Interfaces: 3.1.2-op; 1.1.2-op; 3.1.5-op; 1.3.17-aw; 3.2.2-op; 1.1.2-aw

5. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, it is not located in a position that obstructs the access to, or use of, any required emergency or regular exit, or the use of the aisle between the crew and the passenger compartment, or is located in a position that obscures any passenger's view of the "seat belt" sign, "no smoking" sign or placard, or any required exit sign, unless an auxiliary sign or other approved means for proper notification of the passengers is provided.

Sources: 121.285(d)(4); 121.135(b)(24)

Interfaces: 1.1.2-aw; 3.2.2-op; 1.1.2-op; 3.1.5-op; 3.1.2-op; 1.3.17-aw

6. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an

<p>approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, it is not carried directly above seated occupants. <i>Sources:</i> 121.285(d)(5); 121.135(b)(24) <i>Interfaces:</i> 1.3.17-aw; 1.1.2-aw; 3.2.2-op; 3.1.5-op; 3.1.2-op; 1.1.2-op</p> <p>7. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, it is stowed in compliance with this section for takeoff and landing. <i>Sources:</i> 121.285(d)(6); 121.135(b)(24) <i>Interfaces:</i> 1.1.2-op; 1.1.2-aw; 1.3.17-aw; 3.2.2-op; 3.1.2-op; 3.1.5-op</p> <p>8. Check that the Certificate Holder's manual system includes procedures to ensure that cargo, including carry-on baggage, carried anywhere in the passenger compartment of a nontransport category airplane type certificated after December 31, 1964, is carried in an approved cargo rack, bin, or compartment installed in or on the airplane, and is secured by an approved means, for cargo-only operations, paragraph (d)(4) of this section does not apply if the cargo is loaded so that at least one emergency or regular exit is available to provide all occupants of the airplane a means of unobstructed exit from the airplane if an emergency occurs. <i>Sources:</i> 121.285(d)(7); 121.135(b)(24) <i>Interfaces:</i> 3.2.2-op; 3.1.5-op; 3.1.2-op; 1.1.2-op; 1.3.17-aw; 1.1.2-aw</p>	
<p>1.16 When cargo is carried in cargo compartments that are designed to require the physical entry of a crewmember to extinguish any fire that may occur in flight, does the Certificate Holder's manual specify that the cargo must be loaded so as to allow a crewmember to effectively reach all parts of the compartment with the contents of a hand fire extinguisher? SRRs: 121.287</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder's manual system includes procedures to ensure that when cargo is carried in cargo compartments that are designed to require the physical entry of a crewmember to extinguish any fire that may occur during flight, the cargo must be loaded so as to allow a crewmember to effectively reach all parts of the compartment with the contents of a hand fire extinguisher. <i>Sources:</i> 121.287; 121.135(b)(24) <i>Interfaces:</i> 1.3.17-aw; 1.1.2-aw; 3.2.2-op; 4.2.4-op; 4.2.3-op; 5.1.1-aw; 1.1.2-op; 5.1.5-op</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.17 Does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations specify that hand fire extinguishers of an approved type will be provided for use in cargo compartments in accordance with the following:</p>	

SRRs: 121.367; 121.309(c)	
<p>1.17.1 The type and quantity of extinguishing agent must be suitable for the kinds of fires likely to occur in the compartment where the extinguisher is intended to be used? SRRs: 121.309(c)(1)</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder has a requirement that hand fire extinguishers of an approved type must be provided for use in crew, passenger, cargo, and galley compartments. The type and quantity of extinguishing agent must be suitable for the kinds of fires likely to occur in the compartment where the extinguisher is intended to be used and, for passenger compartments, must be designed to minimize the hazard of toxic gas concentrations. <i>Sources:</i> AC 20-42C 121.309(c)(1) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.3.10-aw; 1.1.2-op; 4.2.4-op; 4.2.3-op</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.17.2 At least one hand fire extinguisher must be conveniently located for use in each Class "E" cargo compartment that is accessible to crewmembers during flight? SRRs: 121.309(c)(2)</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder manual system has instructions and information that at least one hand fire extinguisher conveniently located for use in each Class E cargo compartment that is accessible to crewmembers during flight. Each fire extinguisher must be approved. <i>Sources:</i> 121.309(c)(2); 25.851(a)(5); 121.135(a)(1) <i>Interfaces:</i> 1.3.1-aw; 1.1.2-aw; 1.1.1-aw; 1.3.2-aw; 1.1.2-op</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.18 When operating a transport category airplane that was type certificated after January 1, 1958, does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations specify that: SRRs: 121.314(a); 121.367</p>	
<p>1.18.1 Each Class "C" or Class "D" cargo or baggage compartment, as defined in 14 CFR Section 25.857 in effect on June 16, 1986 (see Appendix L to this part), that is greater than 200 cubic feet in volume has ceiling and sidewall liner panels that are constructed of glass-fiber reinforced resin? SRRs: 121.314(a)(1)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.18.2 Each Class "C" or Class "D" cargo or baggage compartment, as defined in 14 CFR Section 25.857 in effect on June 16, 1986 (see Appendix L to this part), that is greater than 200 cubic feet in volume, has ceiling and sidewall liner panels that are constructed of materials that meet the test requirements of 14 CFR Part 25, Appendix F Part III, or, in the case of liner installations approved prior to March 20, 1989, aluminum? SRRs: 121.314(a)(2); 121.314(a)(3)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

1.18.3 Each Class "D" cargo or baggage compartment has a separate approved smoke detector or fire detector system to give warning at the pilot or flight engineer station regardless of volume? SRRs: 121.314(c); 25.857(c)(1)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.4 Each Class "D" cargo or baggage compartment has an approved built-in fire extinguishing or suppression system controllable from the cockpit? SRRs: 121.314(c); 25.857(c)(2)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.5 Each Class "D" cargo or baggage compartment has a means to exclude hazardous quantities of smoke, flames, or extinguishing agent from any compartment occupied by the crew or passengers? SRRs: 121.314(c); 25.857(c)(3)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.6 Each Class "D" cargo or baggage compartment has a means to control ventilation and drafts within the compartment so that the extinguishing agent used can control any fire that may start within the compartment? SRRs: 121.314(c); 25.857(c)(4)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.7 Each Class "D" cargo or baggage compartment has a detection system that provides a visual indication to the flight crew within one minute after the start of a fire? SRRs: 121.314(c); 25.858	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.8 Each Class "D" cargo or baggage compartment has a system that is capable of detecting a fire at a temperature significantly below that at which the structural integrity of the airplane is substantially decreased? SRRs: 121.314(c); 25.858	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.9 Each Class "D" cargo or baggage compartment has a means to allow the crew to check in flight the functioning of each fire detector circuit? SRRs: 121.314(c); 25.858	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.18.10 It has been shown that for each Class "D" cargo or baggage compartment, the effectiveness of the fire detection system applies to all approved operating configurations and conditions? SRRs: 121.314(c); 25.858(d)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
1.19 Does the Certificate Holder's inspection program and the program covering other maintenance, preventive maintenance, and alterations of airplanes, including airframes, appliances, emergency equipment, and parts thereof: SRRs: 121.369(b); 121.367 <i>Related Design JTI's:</i> 1. Check that the Certificate Holder manual system has instructions and information to personnel regarding the maintenance and inspection program covering all components associated with Air Cargo Operations. The program covering maintenance, preventive maintenance, and alterations of all components associated with the Air Cargo Operations ensures maintenance, preventive maintenance, and alterations performed by it, or by other persons, are performed in accordance with the Certificate Holder's manual. <i>Sources:</i> 121.367(a); 121.135(a)(1) <i>Interfaces:</i> 1.3.7-aw; 1.1.2-aw; 1.3.9-aw; 1.3.2-aw; 1.3.1-aw; 1.1.2-op; 1.1.1-aw; 1.3.14-aw	

<p>1.19.1 Specify that cargo and baggage tiedown equipment, including containers, bins, pallets, etc., used in passenger or crew compartments, may not have an average burn rate greater than 2.5 inches per minute when tested horizontally in accordance with the applicable portions of 14 CFR Part 25, Appendix F? SRRs: 25 App..F(a)(1)(iv)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.2 Specify that tiedown equipment (including containers, bins, and pallets) used in each cargo or baggage compartment, not occupied by a crewmember or passenger, must be constructed of materials that have a burn rate less than 4.0 inches per minute when tested horizontally in accordance with the applicable requirements of 14 CFR Part 25, Appendix F? SRRs: 121.135(a)(1); 121.135(b)(16); 25 App..FPart I (a)(2)(iv)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual has instructions and information to ensure that all insulation blankets, covers, tie-down equipment, including containers, bins, and pallets, used in each cargo and baggage compartment used to protect cargo are verified to be constructed of materials that meet the requirements of FAR Part 25, Appendix F. <i>Sources:</i> 25 App..FPart I (a)(2)(iv); 121.135(a)(1); 121.221(a)(3) <i>Interfaces:</i> 1.3.17-aw; 1.3.7-aw; 1.1.2-aw; 4.2.6-op; 1.1.1-aw; 1.1.2-op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.3 Specify that the instructions for continued airworthiness for each airplane must include the instructions for continued airworthiness for each appliance required by 14 CFR Chapter 1 and any required information relating to the interface of those appliances and products with the airplane? SRRs: 25 App..H(b)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual contains instructions and procedures to ensure that the Instructions for Continued Airworthiness for each airplane include the Instructions for Continued Airworthiness for each appliance article, and product and any required information relating to the interface of those appliances, articles, and products with the airplane. If the manufacturer of an appliance, article, or product installed in the airplane does not supply Instructions for Continued Airworthiness, the Instructions for Continued Airworthiness for the airplane must include the information essential to the continued airworthiness of the airplane. <i>Sources:</i> 25 App..H(b); 21.31(c); 121.135(b)(16) <i>Interfaces:</i> 1.1.2-op; 1.3.1-aw; 1.3.14-aw; 2.1.5-aw; 1.1.1-aw; 1.3.17-aw; 1.1.2-aw; 2.1.5-op; 1.3.2-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.19.4 Specify that if instructions for continued airworthiness are not supplied by the manufacturer of an appliance or product installed in the airplane,</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

the instructions for continued airworthiness for the airplane must include the information essential to the continued airworthiness of the airplane? SRRs: 25 App..H(b); 25 App..F(a)(1)(iv)	
<p>1.19.5 Specify that there must be a means to prevent the contents in the cargo compartments or bins from becoming a hazard by shifting under the loads specified in 14 CFR Section 25.787(a)? SRRs: 25.787(b)</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder's manual system has instructions and procedures to ensure that the approved equipment designed to prevent the contents in cargo compartments or bins from becoming a hazard by shifting under normal ground and flight movement, he not been altered or removed without approval. <i>Sources:</i> 25.787(b); 121.135(b)(20) <i>Interfaces:</i> 1.3.14-aw; 1.1.1-aw; 1.3.2-aw; 1.3.5-aw; 1.1.2-op; 1.3.17-aw; 1.3.7-aw; 1.1.2-aw; 1.3.1-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.6 Specify if stowage compartments using a latched door in the passenger cabin and/or crew compartment are used, the design must take into consideration the wear and deterioration expected in service? SRRs: 25.787(b)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.7 Specify that if cargo compartment lamps are installed, each lamp must be installed so as to prevent contact between the lamp bulb and cargo? SRRs: 25.787(c)</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder has instructions and information to personnel that will ensure that the installation of cargo compartment lamp protective covers is maintained. <i>Sources:</i> 25.787(c); 121.135(a)(1) <i>Interfaces:</i> 1.1.2-aw; 1.3.2-aw; 1.1.2-op; 1.1.1-aw; 1.3.1-aw</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.8 Specify that each cargo and baggage compartment not occupied by crew or passengers must meet one of the class requirements of 14 CFR Section 25.857? SRRs: 25.855(a)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.9 Specify that each Class "B" through Class "E" cargo and baggage compartment not occupied by crew or passengers must have a liner that meets the requirements of 14 CFR Part 25, Appendix F Part 1, (a)(1)(ii), and the liner must be separated from (except for attachments) the airplane structure? SRRs: 25.855(b); 25 App..F, Part 1(a); 25 App..F, Part 2(ii)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
<p>1.19.10 Specify that each Class "C" cargo and baggage compartment not occupied by crew or passengers must have ceiling and sidewall liner panels that meet the test requirements of 14 CFR Part 25, Appendix F part III or other approved equivalent methods? SRRs: 25.855(c)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<p>1.19.11 Specify that each cargo and baggage compartment not occupied by crew or passengers must have all other materials used in the construction of the cargo or baggage compartment that meet the applicable test criteria prescribed in 14 CFR Part 25, Appendix F part I or other approved equivalent methods? SRRs: 25.855(d)</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable</p>
<p>1.19.12 Specify that each cargo and baggage compartment not occupied by crew or passengers must not contain any controls, wiring, lines, equipment, or accessories whose damage or failure would affect safe operation, unless those items are protected to avoid being damaged by the movement of cargo in the compartment, and their breakage or failure will not create a fire hazard? SRRs: 25.855(e)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has procedures to ensure that the cargo interior protective device or limitation, which prevents the movement of cargo in the compartment, and protects any controls, wiring, lines, equipment, or accessory whose damage or failure would affect the safe operation of the airplane, is maintained in accordance with the OEM, STC holder's, or other FAA approved data instructions as applicable. <i>Sources:</i> 25.855(e)(1); 121.135(b)(16); 121.135(b)(19) <i>Interfaces:</i> 1.1.2-aw; 1.1.1-aw; 1.3.1-aw; 1.3.2-aw; 1.1.2-op 	<p><input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable</p>
<p>1.19.13 Specify that each cargo and baggage compartment not occupied by crew or passengers must have a means to prevent cargo or baggage from interfering with the functioning of the fire protective features of the compartment? SRRs: 25.855(f)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure that cargo or baggage will not interfere with the functioning of the fire protective feature of the compartment. <i>Sources:</i> 121.221(a)(2); 25.855(f); 121.135(a)(1) <i>Interfaces:</i> 1.3.1-aw; 1.1.1-aw; 1.1.2-op; 1.1.2-aw; 1.3.7-aw; 1.3.2-aw 	<p><input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable</p>
<p>1.19.14 Specify that each cargo and baggage compartment not occupied by crew or passengers must have sources of heat within the compartment shielded and insulated to prevent igniting the cargo or baggage? SRRs: 25.855(g)</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable</p>

<p>1.20 Does the Certificate Holder's inspection program for appliances and parts thereof contain airworthiness inspections, including instructions covering procedures, standards, responsibilities, and authority of inspection personnel? SRRs: 121.135(b)(19); 121.369(b); 121.367</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder manual system has instructions and information to personnel regarding the maintenance and inspection program covering ULD's and associated buildup equipment. The program covering maintenance, preventive maintenance, and alterations of ULD's and associated buildup equipment that ensures maintenance, preventive maintenance, and alterations performed by it, or by other persons, is performed in accordance with the Certificate Holder's manual. <i>Sources:</i> 121.367(a); 121.135(a)(1) <i>Interfaces:</i> 1.1.2-op; 1.3.1-aw; 1.1.1-aw; 1.1.2-aw; 1.3.14-aw; 1.3.2-aw; 1.3.9-aw; 1.3.7-aw 2. Check that the Certificate Holder manual system instructions and information regarding a training program for maintenance personnel responsible for the proper performance of maintenance, preventive maintenance, and alterations of cargo handling systems and related equipment. <i>Sources:</i> 121.367(b); 121.375; 121.135(a)(1) <i>Interfaces:</i> 1.3.2-aw; 1.3.14-aw; 4.2.1-aw; 1.3.7-aw; 1.3.1-aw 3. Check that the Certificate Holder's manual system instructions and information that adequate facilities and equipment, that provides for the proper performance of maintenance, preventive maintenance, and alterations of cargo handling systems and related equipment. <i>Sources:</i> 121.367(b); 121.135(a)(1) <i>Interfaces:</i> 1.3.2-aw; 1.3.7-aw; 1.3.1-aw; 1.3.14-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.21 Does the Certificate Holder's program covering other maintenance, preventive maintenance, and alterations contain instructions and procedures for the performance of maintenance and preventive maintenance of appliances and parts thereof? SRRs: 121.135(b)(16); 121.369(b); 121.367</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.22 Does the Certificate Holder's Air Cargo Operations process comply with the related requirements of 14 CFR Section 121.380(c)(1)? Related CFRs: 121.380(c)(1)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information to personnel to ensure the maintenance records which are specific to cargo carriage equipment, ULD's, and associated buildup equipment, except for the records of the last complete overhaul, are retained until the work is repeated or superceded by other work or for one year after the work is performed. <i>Sources:</i> 121.380(c)(1); 121.135(a)(1) <i>Interfaces:</i> 1.2.2-aw; 1.2.3-aw; 1.3.1-aw; 1.1.2-aw; 1.1.1-aw; 1.3.2-aw; 1.1.2-op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

<p>1.23 Does the Certificate Holder's Air Cargo Operations process comply with the related requirements of 14 CFR Section 25.1301? Related CFRs: 25.1301(b); 25.1301(c); 25.1301(d)</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder has a requirement that each item of installed equipment must be labeled as to its identification, function, or operating limitations, or any applicable combination of these factors. <i>Sources:</i> 25.1301(b) <i>Interfaces:</i> 4.2.6-op; 1.1.1-aw; 1.3.2-aw; 3.2.2-op; 1.3.5-aw; 4.2.3-op; 1.1.2-op; 4.2.5-op; 4.2.11-op; 1.2.2-aw; 1.1.2-aw; 1.3.1-aw 2. Check that the Certificate Holder has a requirement that each item of installed equipment must be installed according to limitations specified for that equipment. <i>Sources:</i> 25.1301(c) <i>Interfaces:</i> 4.2.11-op; 1.1.2-aw; 3.2.2-op; 1.3.5-aw; 1.3.2-aw; 1.3.1-aw; 4.2.5-op; 4.2.3-op; 1.1.2-op; 1.1.1-aw; 4.2.6-op; 1.2.2-aw 3. Check that the Certificate Holder has a requirement that each item of installed equipment must function properly when installed. <i>Sources:</i> 25.1301(d) <i>Interfaces:</i> 4.2.11-op; 1.3.1-aw; 1.2.2-aw; 3.2.2-op; 1.1.2-aw; 1.1.1-aw; 4.2.6-op; 4.2.5-op; 1.3.5-aw; 1.3.2-aw; 1.1.2-op; 4.2.3-op 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.24 Does the Certificate Holder's Air Cargo Operations process comply with the guidance contained in FSAW 97-21?</p> <p><i>Related Design JTI's:</i></p> <ol style="list-style-type: none"> 1. Check that the Certificate Holder's manual system has instructions and information that the airworthiness of the aircraft includes cargo containers, pallets, and any restraint system installed on the aircraft. <i>Sources:</i> FSAW 97-21 Paragraph A <i>Interfaces:</i> 1.3.1-aw; 1.1.1-aw 2. Check that the Certificate Holder's manual system has instructions and information to personnel that if maintenance is required on any TC, STC, or other FAA approved ULD or restraint device, it must be accomplished in accordance with the appropriate regulations by a certificated person. <i>Sources:</i> FSAW 97-21 Paragraph 3A <i>Interfaces:</i> 1.1.1-aw; 1.3.1-aw 3. Check that the Certificate Holder's manual system contains instructions and information to personnel that the airworthiness of the aircraft includes ULD's and any restraint system installed on the aircraft. <i>Sources:</i> FSAW 97-21 Paragraph A <i>Interfaces:</i> 1.3.1-aw; 4.2.1-aw; 1.3.14-aw; 1.1.1-aw 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

<p>1.25 Does the Certificate Holder's Air Cargo Operations process comply with the related requirements of HBAAT 97-08?</p> <p><i>Related Design JTI's:</i></p> <p>1. Check that the Certificate Holder's manual system includes procedures prohibiting carriage of oxygen generators as cargo on passenger carrying aircraft.</p> <p><i>Sources:</i> HBAAT 97-08 121.135(b)(23)</p> <p><i>Interfaces:</i> 3.1.12-op; 1.3.7-aw; 1.3.17-aw; 5.1.5-op; 5.1.1-aw; 3.1.3-op; 3.2.2-op; 4.2.6-op; 4.2.1-aw; 4.2.3-op</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
<p>1.26 If alternate procedures exist for use during irregular conditions, do the alternate procedures provide an equivalent level of safety to achieve the same results as the primary procedures?</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

SAI SECTION 1 – PROCEDURES ATTRIBUTE –Drop Down Menu	
1. No procedures, policy, instructions or information specified.	
2. Procedures or instructions and information do not identify (who, what, when, where, how).	
3. Procedures, policy or instructions and information do not comply with CFR.	
4. Procedures, policy or instructions and information do not comply with FAA policy and guidance.	
5. Procedures, policy or instructions and information do not comply with other documentation (e.g., manufacturer's data, Jeppesen's Charts, etc.).	
6. Procedures, policy or instructions and information unclear or incomplete.	
7. Documentation quality (e.g., unreadable or illegible).	
8. Procedures, policy or instructions and information inconsistent across Certificate Holder manuals (FOM – Flight Operations Manual to GMM – General Maintenance Manual, etc.).	
9. Procedures, policy or instructions and information inconsistent across media (e.g., paper, microfiche, electronic).	
10. Resource requirements incomplete (personnel, facilities, equipment, technical data).	
11. Other.	

SAI SECTION 2 – CONTROLS ATTRIBUTE

Objective: Controls are checks and restraints designed into a process to ensure a desired result. The questions in this section of the data collection tool are designed to assist the inspector in determining if checks and restraints are designed into the process to ensure the desired result is achieved. Controls should be written into the manual system to ensure that the most important manual policies, procedures or instructions and information will be complied with.

Controls may be in the form of "administrative controls" which are secondary or supplemental written procedures. Like written procedures, administrative controls also need to provide answers to the associated who, what, when, where and how type questions. Controls may also be in the form of "engineered controls" such as automated features or mechanical actions or devices (i.e., safety devices, warning devices, etc.).

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Review the control questions below.
- 2 Review the Certificate Holder's policies, procedures, instructions and information to gain an understanding of the controls that it has documented.

Questions

To meet this objective, the inspector must answer the following questions:

- 2 Are the following controls built into the Air Cargo Operations process:

2.1 Is there a control in place to ensure that the Certificate Holder's installed equipment (e.g., bins, ULD's, retention nets, straps, fire extinguishers, cargo and baggage compartments) for Cargo Handling Equipment, Systems, and Appliances systems continuously meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
2.2 Is there a control in place to ensure that the Certificate Holder's installed interior protective covers, liners, and devices continuously meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
2.3 Is there a control in place to ensure that the Certificate Holder's installed ventilation and/or draft control systems continuously meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
2.4 Is there a control in place to ensure that the Certificate Holder's procedures result in utilization of the appropriate bin, container, strap, and netting for the type of aircraft and cargo?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
2.5 Is there a control in place to ensure that the Certificate Holder utilizes tools, test equipment and scales required by the Instructions for Continued Airworthiness and the Certificate Holder's program for Air Cargo Operations?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
2.6 Does the Certificate Holder have a documented method for assessing the impact of any changes made to the controls in the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

SAI SECTION 2 – CONTROLS ATTRIBUTE –Drop Down Menu
1. No controls specified.
2. Documentation for the controls do not identify (who, what, when, where, how).
3. Controls incomplete.
4. Controls could be circumvented.
5. Controls could be unenforceable.
6. Resource requirements incomplete (personnel, facilities, equipment, technical data).
7. Other.

SAI SECTION 3 – PROCESS MEASUREMENT ATTRIBUTE

Objective: Process measurements are used by the Certificate Holder to measure and assess its processes to identify and correct problems or potential problems and to make improvements to the processes. The questions in this section of the data collection tool are designed to assist the inspector in determining if the Certificate Holder measures or assesses information to identify, analyze and document potential problems with the process. Process measurements are basically a Certificate Holder's internal evaluation or auditing of the most important policies, procedures or instructions and information associated with an element.

To prevent the duplication of work that would otherwise occur, Process Measurements are most commonly addressed through a combination of auditing features contained in both the Certificate Holder's Safety Program/Internal Evaluation Program (for Operations and Cabin Safety related issues) and the auditing function of the Continuous Analysis & Surveillance System (for Airworthiness or Maintenance/Inspection related issues). The Director of Safety and the Quality Assurance Department often work in conjunction to accomplish this function for the Certificate Holder. This approach simply requires amendment of the Safety Program/Internal Evaluation Program audit forms or checklists and the Continuous Analysis & Surveillance System audit forms or checklists to include the specific process measurements for each element.

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Review the process measurement questions below.
- 2 Review the Certificate Holder's policies, procedures, instructions and information to gain an understanding of the process measurements that it has documented.

Questions

To meet this objective, the inspector must answer the following questions:

- 3 Does the Certificate Holder's Air Cargo Operations process include the following process measurements:

3.1 Process measurements that would reveal when the Certificate Holder's installed equipment (e.g., bins, ULD's, retention nets, straps, fire extinguishers, cargo and baggage compartments) for Air Cargo Operations failed to meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
3.2 Process measurements that would reveal when the Certificate Holder's installed interior protective covers, liners, and devices failed to meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
3.3 Process measurements that would reveal when the Certificate Holder's installed ventilation and/or draft control systems failed to meet the approved Maintenance/Inspection program requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
3.4 Process measurements that would reveal when the Certificate Holder's procedures failed to result in utilization of the appropriate bin, container, strap, and netting for the type of aircraft and cargo?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
3.5 Process measurements that would reveal when the Certificate Holder failed to utilize tools, test equipment and scales contained in the Instructions for Continued Airworthiness, and the Certificate Holder's program for maintaining Air Cargo Operations?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
3.6 Does the Certificate Holder document its process measurement methods and results?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

3.7 Does the organization that conducts the process measurements have direct access to the person with responsibility for the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
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SAI SECTION 3 – PROCESS MEASUREMENT ATTRIBUTE –Drop Down Menu	
1. No process measurements specified.	
2. Documentation for the process measurements does not identify (who, what, when, where, how).	
3. Inability to identify negative findings.	
4. No provisions for implementing corrective actions.	
5. Ineffective follow-up to determine effectiveness of corrective actions.	
6. Resources requirements (personnel, facilities, equipment, technical data).	
7. Other.	

SAI SECTION 4 – INTERFACES ATTRIBUTE

Objective: Interfaces are used by the Certificate Holder to identify and manage the interactions between processes. The questions in this section of the data collection tool are designed to assist the inspector in determining whether or not interactions between the procedures, policies or instructions and information associated with other independent processes within the Certificate Holder's organization are documented. Written procedures, policies or instructions and information that are interrelated and located in different manuals within the Certificate Holder's manual system need to be consistent and complement each other. For the interfaces to be effectively managed, it is not only important to identify what the interfaces are, but it is imperative to document the specific location of the interfaces within the Certificate Holder's manual system.

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Review the interfaces associated with the Air Cargo Operations process that have been identified along with the individual questions in the Procedures Section (1) of this data collection tool.
- 2 Review the Certificate Holder's policies, procedures, instructions and information to gain an understanding of the interfaces that it has documented.

Questions

To meet this objective, the inspector must answer the following questions:

NOTE: ALL EXPLANATIONS IN THE DROP DOWN MENU FOR "NO" ANSWERS MUST INCLUDE THE INDIVIDUAL QUESTION NUMBER FROM THE PROCEDURES SECTION (1) OF THIS DATA COLLECTION TOOL AND THE ELEMENT NUMBER(S) OF THE INTERFACE(S) THAT WERE NOT ADDRESSED.

- 4 Does the Certificate Holder's manual:
 - 4.1 Properly address the interfaces that are identified along with the individual questions in the Procedures Section (1)?

<input type="checkbox"/> Yes
<input type="checkbox"/> No, Explain
 - 4.2 Document a method for assessing the impact of any changes to the associated interfaces within the Air Cargo Operations process?

<input type="checkbox"/> Yes
<input type="checkbox"/> No, Explain
 - 4.3 List additional interfaces identified during the accomplishment of this SAI?

SAI SECTION 4 – INTERFACES ATTRIBUTE –Drop Down Menu
1. No interfaces specified.
2. The following interfaces not identified within the Certificate Holder's manual system:
3. Interfaces listed are inaccurate.
4. Specific location of interfaces not identified within the manual system.
5. Other

SAI SECTION 5 – MANAGEMENT RESPONSIBILITY & AUTHORITY ATTRIBUTE

Objective: The questions in this section of the data collection tool address the responsibility and authority of the process. They are designed to assist the inspector in determining if there is a clearly identifiable, qualified and knowledgeable person who is responsible for the process, is answerable for the quality of the process and has the authority to establish and modify the process. (The person with the authority may or may not be the person with the responsibility.)

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Identify the person who has overall responsibility for the Air Cargo Operations process.
- 2 Identify the person who has overall authority for the Air Cargo Operations process.
- 3 Review the duties and responsibilities of the person(s), documented in the Certificate Holder's manual.
- 4 Review the appropriate organizational chart.

Questions

To meet this objective, the inspector must answer the following questions:

- 5 Are the following aspects of the Management Responsibility and Authority Attributes addressed in the Air Cargo Operations process:

5.1 Does the Certificate Holder's manual clearly identify who is responsible for the quality of the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain Name/Title: <input type="text"/>
5.2 Does the Certificate Holder's manual clearly identify who has authority to establish and modify the policies, procedures, instructions and information for the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain Name/Title: <input type="text"/>
5.3 Does the Certificate Holder's manual include the duties and responsibilities of those who manage the work required by the Air Cargo Operations process? SRRs: 121.135(b)(2)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5.4 Does the Certificate Holder's manual include instructions and information for those who manage the work required by the Air Cargo Operations process? SRRs: 121.135(a)(1)	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5.5 Does the Certificate Holder's manual clearly and completely document the authority for this position?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5.6 Does the Certificate Holder's manual clearly and completely document their qualification standards for the person having responsibility for the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5.7 Does the Certificate Holder's manual clearly and completely document their qualification standards for the person having authority to establish and modify the Certificate Holder's policies, procedures, instructions and information for the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5.8 Does the Certificate Holder's manual clearly and completely document the procedures for delegation of authority for the Air Cargo Operations process?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

SAI SECTION 5 – MANAGEMENT RESPONSIBILITY & AUTHORITY ATTRIBUTE –Drop Down Menu
1. Not documented.
2. Documentation unclear.
3. Documentation incomplete.
4. Other.